

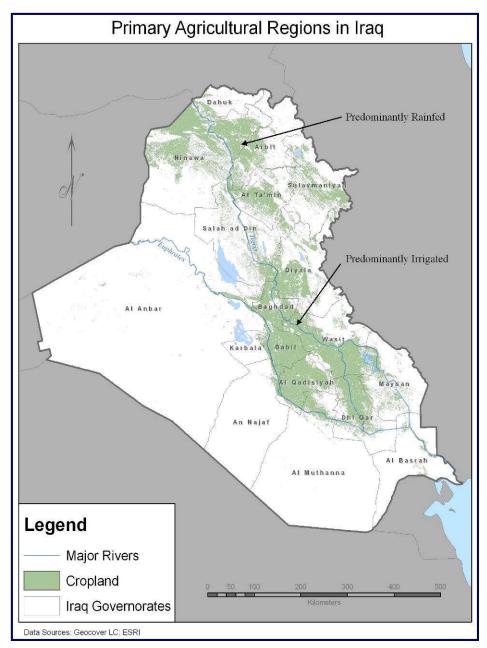
Food Security & Supply: Lessons from Iraq

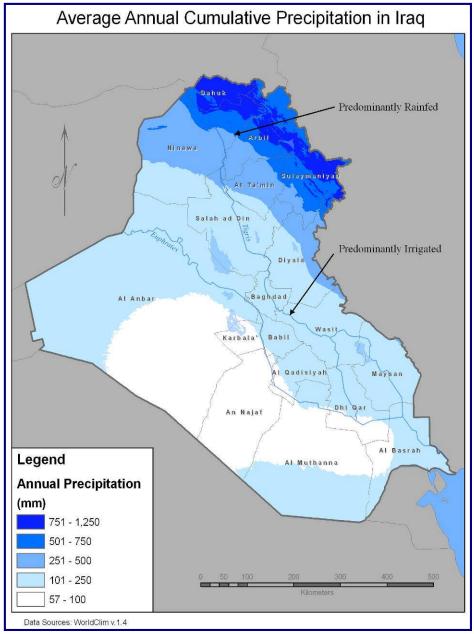
Jonathan P Gressel
Former Agricultural Counselor
U.S. Embassy Baghdad
USDA Foreign Agricultural Service



Iraq – Food Security Environment

- Mesopotamia the land between the two rivers, the Tigris and the Eupharates
- The origin of wheat and barley cultivation
- Dates, vegetables, fruit and sheep
- Grain exporter in 1950s and 1960s
- Currently, agriculture employs over 25% of the labor force and provides 10% of GDP



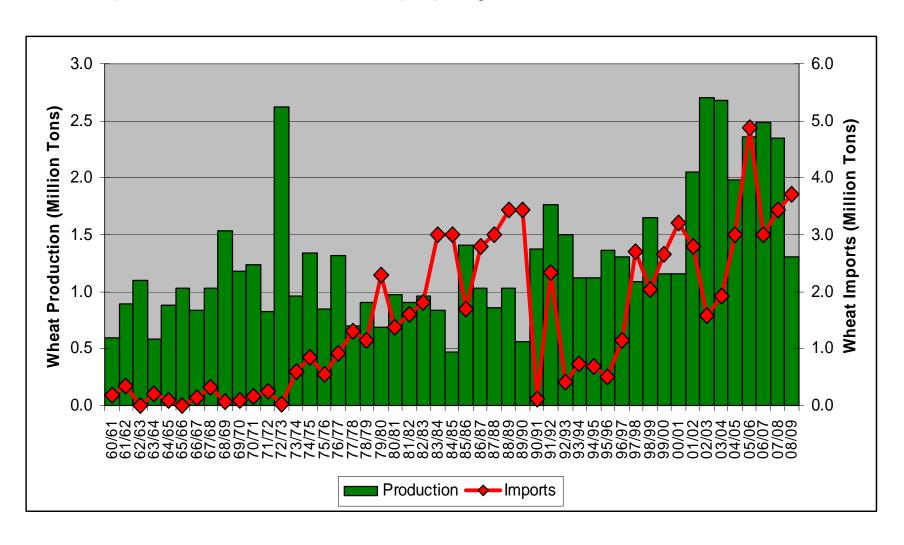




Decline in Food Self-Sufficiency

- Baathist economic policies, the 1980-88 Iran-Iraq War, the Gulf War, and UN Sanctions diverted resources from agriculture and caused the misallocation of resources within the sector.
- The UN Oil-for-Food Program assisted with food supply through imports, and also increased investment in the grain supply sector. However, OFF increased dependency on the Public Distribution System.
- Post 2003, limited efforts to assist the agriculture sector, especially by the Government of Iraq.
- Decreasing water flows on Tigris and Euphrates due to major irrigation projects in Turkey and Syria..

Iraq Wheat Supply 1960-2008





Crop Forecasts in a Conflict Zone

- Normally USDA/FAS develops crop estimates based on the work of our overseas Agricultural Attachés and FAS/W International Production Assessment Division Analysts.
- Host governments and the private sector normally have good, if not totally accurate information, if they are willing to share.
- Iraq presented a major challenge to this system.



USDA/FAS in Iraq

- In Baghdad 2 FAS Foreign Service Officers, 6 Ministerial Advisers, 4 local staff, 3 Bicultural/Bilingual Advisers and 1 Liaison officer at Office of Provincial Affairs
- 27 Provincial Reconstruction Team Agricultural Advisers recruited from USDA and outside.
- Supported by FAS Office of Capacity Building and Development for technical assistance, scientific exchanges and recruitment.
- OGA for crop forecasting/analysis.
- OCRA on policy coordination.



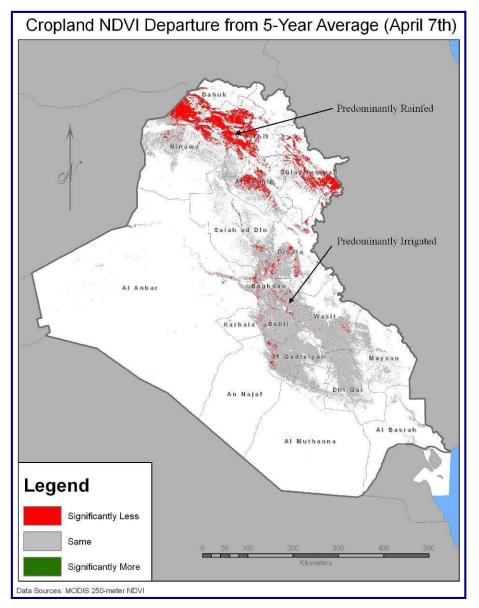
USDA and **NGA** Partnership

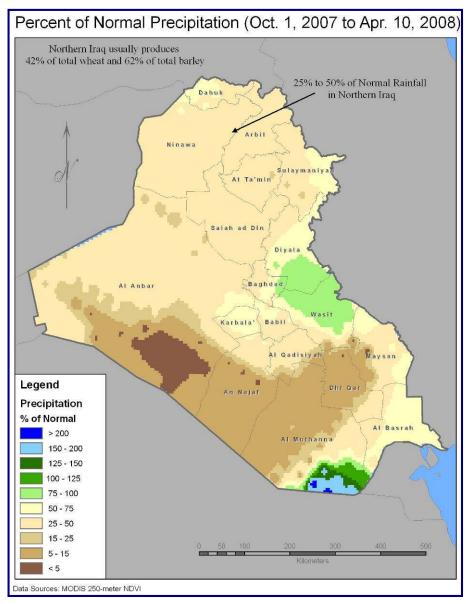




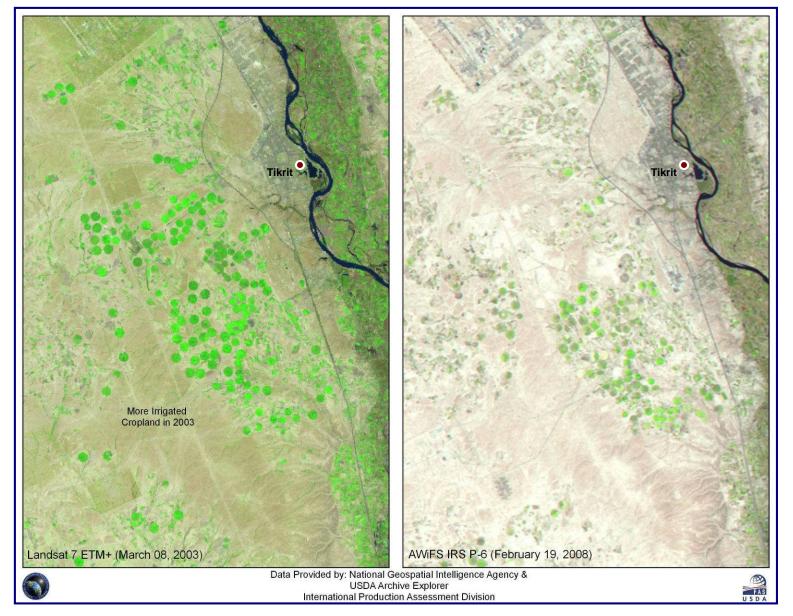
In 2007, pilot project initiated by USDA/FAS and National Geospatial Intelligence Agency to develop new remote sensing processes for predicting harvests in regions with minimal ground truth.

Drought Situation 2008 Crop





Other Factors Affect Production





Political-Military Perspective

- In early 2008, the "Surge" was taking hold in Central and Western Iraq and spreading to Northern Iraq.
- Spike in world food prices was causing civil unrest in neighboring countries. Concerns over potential civil unrest in Iraq.
- When GOI talked of reducing Public Distribution System rations and coverage, Grand Ayatollah Ali Sistani came out publicly against any change.



Coalition Initiatives

 Agricultural Working Group set up ad hoc drought assessment and planning committee to assess potential impacts and suggest mitigation measures for military and civilian actors – USDA, USAID, State, MNF-I and MNC-I participated and consulted with GOI experts.

Coalition military at the Division and Brigade level funded local initiatives.



Impacting Iraqi Decision-Making

- In early 2008, FAS/Baghdad briefed the Ministers of Agriculture and Trade, the Ministry of Planning, the Deputy Prime Minister's Office and the National Assembly's Agriculture Committee.
- The GOI's Interministerial Drought Action Committee used USDA estimates and the Coalition drought assessment to assist in developing the GOI plan.



Iraqi Drought Mitigation Plan

- Make subsidized livestock feed available to farmers to preserve foundation of herd
- Make seeds available for 2008/2009 wheat crop
- Limit rice cultivation in Summer 2008
- Pay compensation to farmers for expenses.
- Negotiate with neighbors on stabilizing water flow on Tigris and Euphrates
- Assure adequate food and feed supplies by increasing imports



GOI Acts to Increase Food Supply

- Initial 2008 Budget had no increase in Public Distribution System funding - \$3.3 billion budget
- Ministry of Trade, aided by Embassy efforts, received an additional \$2.5 billion to fund the PDS in Supplemental Budget.
- Prime Minister's Ag Initiative \$500 million



Importance of Logistics

- Iraq imports grain by ship via Basra port
- In late 2007/early 2008, worked with Ministries of Trade and Finance and DPM's Office to overcome freight payment crisis
- GOI military takeover of Port of Basra from Mahdi Army helped improve security and logistics and limit corruption
- Shifting of grain cargo from trucks to bulk trains due to repair of infrastructure/improved security.



Lessons Learned

- Grain crop estimation relying on remote sensing is feasible, but requires significant resources.
- Host country and partner experts need to identify problems and develop and implement mitigation measures. In Iraq, GOI implementation faltered.
- Increased food imports require better logistics and more financial resources.
- Need to plan for the following crop.

